

Terrestrial Ecological Evaluation (TEE): Decision Documentation

Submitter: ? Date: ? * Required

Terrestrial Ecological Evaluation procedures must be followed at every site where a release of a hazardous substance to the soil has occurred (WAC 340-7490(2)). In the event of a release one of the following three actions must be taken: (1) Document an exclusion from further terrestrial evaluation; (2) Conduct a simplified TEE; or (3) Conduct a site-specific TEE. This section facilitates the documentation of the procedures and results of the Terrestrial Ecological Evaluation process. Completing this portion of the survey can be done with minimal effort, requiring only 3-5 check marks in most cases. Completion of this section will facilitate updating the TEE module of the ISIS database.

- Excluded from Terrestrial Ecological Evaluation - The bases for excluding a site from a terrestrial ecological evaluation are set forth in WAC 173-340-7491(1). Please identify below the basis for excluding your Site from further evaluation. Please check all that apply.
- POINT OF COMPLIANCE – WAC 173-340-7491(1)(A)
 - All contamination is 15 feet below ground level prior to remedial activities.
 - All contamination is below the six foot conditional point of compliance and an institutional control has been implemented as required by WAC 173-340-440.
 - All contamination is below a site-specific point of compliance established in compliance with WAC 173-340-7490 (1)(b) with an institutional control implemented as required by WAC 173-340-440.
- BARRIERS TO EXPOSURE – WAC 173-340-7491(1)(b)
 - All contaminated soil, or will be, covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife and an institutional control has been implemented as required by WAC 173-340-440. An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.
- UNDEVELOPED LAND – WAC 173-340-7491(1)(c)
 - There is less than 0.25 acre of contiguous* undeveloped land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
 - For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous* undeveloped land on or within 500 feet of any area of the Site.
 - No contaminants (without a value in Table 749-2) in the upper 15 feet are likely to be toxic or have the potential to biaccumulate as determined by approved bioassays.
 - No contaminants (without a value in Table 749-2) in the upper 6 feet are likely to be toxic or have the potential to biaccumulate as determined by approved bioassays; and an institutional control program is in place.
- BACKGROUND CONCENTRATIONS – WAC 173-340-7491(1)(d)
 - Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and WAC 173-340-709.
 - No Exposure – No contamination present (Historic ISIS Data Migration June 2010)

* "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

** "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

- Completed Simplified Terrestrial Ecological Evaluation
 - Exposure Analysis – WAC 173-340-7492(2)(a)
 - Area of soil contamination is not more than 350 square feet.
 - Current or planned land use makes wildlife exposure unlikely (Table 749-1).
 - Pathway Analysis – WAC 173-340-7492(2)(b)
 - No potential exposure pathways from soil contamination to ecological receptors.
 - No contaminants in the upper 15 feet exceed listed Table 749-2 values
 - No contaminants in the upper 6 feet exceed listed Table 749-2 values and an institutional control program is in place.
 - Contaminant Analysis – WAC 173-340-7492(2)(c)

- Completed a Site-Specific Terrestrial Ecological Evaluation
 - Step 1: Problem Formulation – WAC 173-340-7493(2)
 - No further evaluation is necessary because no issues were identified in the problem formulation step. There are no complete exposure pathways.
 - No further evaluation is necessary because, while issues were identified, those issues were addressed by the cleanup actions for protecting human health. Those actions eliminated all exposure pathways of concern.
 - Further evaluation was necessary. Go to Step 2.
 - Step 2: Method Selection – WAC 173-340-7493(3)
 - Yes.
 - No.
 - Literature surveys.
 - Soil bioassays.
 - Wildlife exposure model.
 - Biomarkers.
 - Site-specific field studies.
 - Weight of evidence.
 - Other methods approved by Ecology. If so, please specify: _____